

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

Date of Report: September 16, 1993

Date Received: September 10, 1993

Project: 7238, Acid % Test, PO #M 30826

Date Extracts Analyzed: September 10, 1993

**RESULTS FROM THE ANALYSIS OF ACID SAMPLES  
FOR PERCENT ACID AS  $\text{HNO}_3$   
Results Reported as Percent**

<u>Sample ID</u>	<u>Percent Acid as <math>\text{HNO}_3</math></u>
M 30826 A Small Tank	6.1% <sup>a</sup>
M 30826 B Lg Tank	7.9% <sup>a</sup>
 <u>Quality Assurance</u>	
M 30826 B Lg Tank (Duplicate)	8.0% <sup>a</sup>

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<sup>a</sup> Accurate determinations difficult due to the presence of buffering compounds and to precipitation reactions that occur during titration.

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**RESULTS FROM THE ANALYSIS OF WATER SAMPLES  
FOR SPECIFIC GRAVITY**

Results Reported as g/mL Sample per g/mL Water at 60°F

<u>Sample #</u>	<u>Specific Gravity</u>
M 30826 A Small Tank	1.29
M 30826 B Lg Tank	1.32
 <u>Quality Assurance</u>	
Tap Water Blank	0.998
M 30826 B Lg Tank (Duplicate)	1.32





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Andrew John Friedman  
James E. Bruya, Ph.D.  
(206) 285-8282

3008-B 16th Avenue West  
Seattle, WA 98119  
FAX: (206) 283-5044

September 16, 1993

**INVOICE #93ACU0916-2**

Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

RE: Project 7238, Acid % Test, PO #M 30826: Results of testing requested by  
Gerald Thompson, Project Leader and submitted on September 10, 1993.

2 acid samples analyzed for Percent Acid as $\text{HN0}_3$ @ \$25 per sample	\$ 50.00
2 water samples analyzed for Specific Gravity @ \$25 per sample	<u>50.00</u>
Amount Due .....	\$ 100.00

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DUPLICATE COPY**

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September 16, 1993


Gerald Thompson, Project Leader  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on September 10, 1993 from Project 7238, Acid % Test, PO #M 30826.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,



Beth Plotkin  
Chemist

BP/dp

Enclosures